ELSEVIER

Biomembranes

Vol. 1368, 1998

BIOCHIMICA ET BIOPHYSICA ACTA
BBA

Cumulative Contents

Information for Contributors vii

Regular papers

Zinc uptake into fibroblasts is inhibited by probenecid
C.-Y. Chang, S.J. Muga and A. Grider (USA) 1

Complexes between porin, hexokinase, mitochondrial creatine kinase and adenylate translocator display properties of the permeability transition pore. Implication for regulation of permeability transition by the kinases
G. Beutner, A. Rück, B. Riede and D. Brdiczka (Germany) 7

Probing the water permeability of ROMK1 and amphotericin B channels using *Xenopus* oocytes
R.Z. Sabirov, S. Morishima and Y. Okada (Japan) 19

Video imaging analysis of the plasma membrane permeabilizing effects of *Bacillus thuringiensis* insecticidal toxins in Sf9 cells
M. Villalon, V. Vachon, R. Brousseau, J.-L. Schwartz and R. Laprade (Canada) 27

Translocation of alkali metal cations by lipophilic cyclodextrin derivatives through black lipid membranes
K. Kobayashi, S. Mittler-Neher, J. Spinke, G. Wenz and W. Knoll (Germany, Japan) 35

Catalytic hydrogenation of polyunsaturated biological membranes: effects on membrane fatty acid composition and physical properties
J.A. Logue, L. Vigh, F. Joó and A.R. Cossins (UK, Hungary) 41

Phospholipid fatty acyl spatial distribution in bovine rod outer segment disk membranes
A.D. Albert, J.E. Young and Z. Paw (USA) 52

Na,K-ATPase pump in activated human lymphocytes: on the mechanisms of rapid and long-term increase in K influxes during the initiation of phytohemagglutinin-induced proliferation
I.I. Marakhova, A.A. Vereninov, F.V. Toropova and T.A. Vinogradova (Russian Federation) 61

Immunodetection of a type III sodium-dependent phosphate cotransporter in tissues and OK cells
C.J.C. Boyer, A.D. Baines, É. Beaulieu and R. Béliveau (Canada) 73

Chloride- and pH-dependent proton transport by BR mutant D85N
C. Ganea, J. Tittor, E. Bamberg and D. Oesterhelt (Germany, Romania) 84

Adjuvant lipopeptide interaction with model membranes
J. Gonzalez-Christen, I. Vergne, R. Süßmuth, S. Sidobre, M. Prats, J.F. Tocanne and G. Lanéelle (France, Germany) 97

Kinetic characterization of a membrane-specific ATPase from rat osseous plate and its possible significance on endochondral ossification
J.M. Pizauro, M.A. Demenis, P. Ciancaglini and F.A. Leone (Brazil) 108

Electrostatic and structural properties of complexes involving plasmid DNA and cationic lipids commonly used for gene delivery
N.J. Zuidam and Y. Barenholz (Israel) 115

Quantitative determinations of the steady state transcript levels of hexokinase isozymes and glucose transporter isoforms in normal rat tissues and the malignant tumor cell line AH130
Y. Shinohara, K. Yamamoto, K. Inoo, N. Yamazaki and H. Terada (Japan) 129

Significance of the glutamic acid residues Glu_{334}, Glu_{959}, and Glu_{960} of the α subunits of *Torpedo* Na^+,K^+ pumps for transport activity and ouabain binding
L.A. Vasilets, K. Takeda, M. Kawamura and W. Schwarz (Germany, Japan, Russia) 137

The effects of chloroplast lipids on the stability of liposomes during freezing and drying
D.K. Hincha, A.E. Oliver and J.H. Crowe (Germany, USA) 150

Information for Contributors vii

Rapid reports

Steroid hormones partition to distinct sites in a model membrane bilayer: direct demonstration by small-angle X-Ray diffraction
G.A. Golden, R.T. Rubin and R.P. Mason (USA) 161

Ion permeation through a G-protein activated (GIRK1/GIRK5) inwardly rectifying potassium channel
T. Luchian and W. Schreibmayer (Austria) 167

Regular papers

Cation-dependent fusogenicity of an *N*-acyl phosphatidylethanolamine
T. Shangguan, C.C. Pak, S. Ali, A.S. Janoff and P. Meers (USA) 171

K^+-Dependence of electrogenic transport by the NaK–ATPase
T. Gropp, F. Cornelius and K. Fendler (Germany, Denmark) 184

Ultraflexible vesicles, Transfersomes, have an extremely low pore penetration resistance and transport therapeutic amounts of insulin across the intact mammalian skin
G. Cevc, D. Gebauer, J. Stieber, A. Schätzlein and G. Blume (Germany) 201

Hydration of phospholipid bilayers in the presence and absence of cholesterol
D. Bach and I.R. Miller (Israel) 216

Calcium-dependent conformation of *E. coli* α-haemolysin. Implications for the mechanism of membrane insertion and lysis
L. Bakás, M.P. Veiga, A. Soloaga, H. Ostolaza and F.M. Goñi (Spain) 225

Effects of polar carotenoids on the shape of the hydrophobic barrier of phospholipid bilayers
A. Wisniewska and W.K. Subczynski (USA) 235

Differential effects of cholesterol and oxidised-cholesterol in egg lecithin bilayers
C. Karolis, H.G.L. Coster, T.C. Chilcott and K.D. Barrow (Australia) 247

Correlation of hepatocyte growth factor-induced proliferation and calcium-activated potassium current in human gastric cancer cells
S.-I. Liu, C.-W. Chi, W.-Y. Lui, K.-T. Mok, C.-W. Wu and S.-N. Wu (Taiwan) 256

Expression and characterization of a *Synechocystis* PCC 6803 P-type ATPase in *E. coli* plasma membranes
M. Geisler, W. Koenen, J. Richter and J. Schumann (Germany) 267

Cationic lipid-mediated gene transfer: effect of serum on cellular uptake and intracellular fate of lipopolyamine/DNA complexes
V. Escriou, C. Ciolina, F. Lacroix, G. Byk, D. Scherman and P. Wils (France) 276

A model of hydrogen bond formation in phosphatidylethanolamine bilayers
D.A. Pink, S. McNeil, B. Quinn and M.J. Zuckermann (Canada) 289

Cholesterol mobilization and regression of atheroma in cholesterol-fed rabbits induced by large unilamellar vesicles
W.V. Rodrigueza, S.K. Klimuk, P.H. Pritchard and M.J. Hope (Canada) 306

Interaction of dehydroepiandrosterone with phospholipid membranes:an infrared spectroscopy investigation
A. Dicko, T. Di Paolo and M. Pézolet (Canada) 321

Purification and liposomal reconstitution of the oligopeptide transport activity in rat renal cortex using ceftibuten-affinity chromatography
K. Iseki, I. Naasani, T. Kikuchi, M. Sugawara, M. Kobayashi, N. Kohri and K. Miyazaki (Japan) 329

Access resistance of a single conducting membrane channel
V. Levadny, V.M. Aguilella and M. Belaya (Spain) 338

Studies of kinetics and equilibrium membrane binding of class A and class L model amphipathic peptides
I.V. Polozov, A.I. Polozova, V.K. Mishra, G.M. Anantharamaiah, J.P. Segrest and R.M. Epand (Canada, USA) 343

Cumulative Contents Vol. 1368 355

Author Index 357